

**Marathon and Turbo:** Hoists will have a third line/return line included in the installation carton. This third line will recirculate hydraulic fluid back to the reservoir minimizing the chance for the pump to overheat.

### INSTALL CYLINDER HOSES – DOUBLE ACTING

For M53 series, install a 1 1/16 ORB male x 3/4 NPT female 90° swivel adapter in the power-up port on the cylinder. For M63 series, install a 1 1/16 ORB male x 1 NPT female 90° swivel adapter in the power-up port on the cylinder. Install a 3/4 ORB male x 3/8 NPT female 90° swivel adapter in the power-down port.

For M53 series, install a 1 1/16 ORB x 3/4 NPT 90° swivel adapter in the B (power up) port of the control valve. For M63 series, install a 1 1/16 ORB x 1 NPT 90° swivel adapter in the B (power up) port of the control valve. Install a 1 1/16 ORB x 3/4 ORB extension and a 3/4 ORB x 3/8 NPT 90° swivel adapter in the A (power down) port. Using a 60" long hose, connect the B port on the control valve to the power up port on the cylinder. Using a 60" long 3/8" I.D. hose, connect the A port to the power down port. This will raise the body when the valve control lever is pulled back and lower the body when the lever is pushed forward.

### INSTALL CYLINDER HOSE – SINGLE ACTING

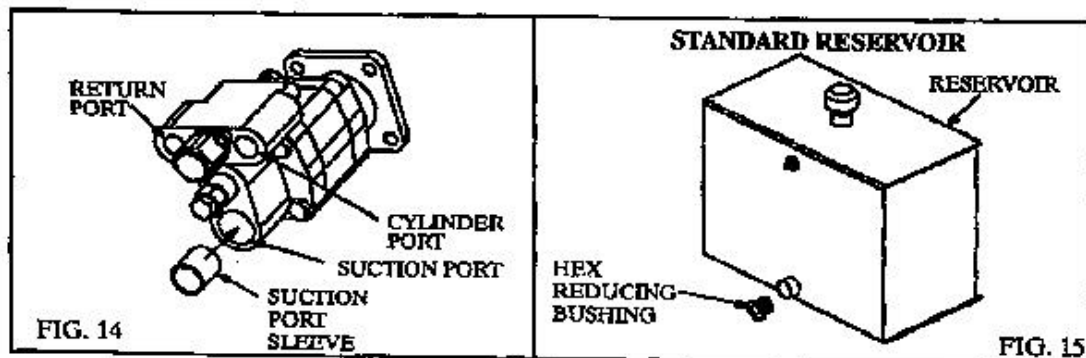
For M53 series, install a 1 1/16 ORB male x 3/4 NPT female 90° swivel adapter in the port on the cylinder. Install a 1 1/16 ORB x 3/4 NPT swivel adapter in the work port of the control valve. Using a 60" long hose, connect the work port of the control valve to the port on the telescopic cylinder.

For M63 and M74 series, install a 1 5/16 ORB male x 1 NPT female 90° swivel adapter in the port on the cylinder. Using a 60" long hose, connect the work port of the control valve to the port on the telescopic cylinder.

### INSTALL RETURN AND SUCTION HOSES

A return line hose must be installed for long pump life. A suction port sleeve has been installed in the suction port on the pump. (See Fig. 14.) This sleeve prevents the oil from recirculating inside the pump/valve and directs the oil flow out the return port. Operating this pump/valve without installing the return line will cause the pump/valve to fail.

For M53 series, install a 1 1/4 x 1 hex reducing bushing in the return port on the reservoir. Remove the plug from the return port on the control valve and install a swivel adapter in its place. Install a 72" long hose from the return port on the pump to the return port on the reservoir.



Install the 2" NPT x 1 1/2" hose barb in the suction port on the bottom of the frame-mounted reservoir, the 1 1/2" NPT x 1 1/2" hose barb for the doghouse reservoir, and the 1 1/4" NPT x 1 1/2" hose barb in the suction port on the back of the pump/valve. Connect a 1 1/2" I.D. suction hose from the